



## Technical Datasheet

### R03RR Polypropylene Homopolymer

### Woven Sacks & Monofilaments

#### Product Characteristics:

Polysure R03RR is Polypropylene Homopolymer, produced by Latest Novolen Technology & Primarily suitable for tape extrusion process applications. R03RR combines extremely low water carry-over with Exceptional processability, Good balance of tenacity & elongation for the production of tapes.

#### Recommended Applications:

**R03RR** is recommended for Tape yarns, Monofilaments, Ropes, Leno bags, Strapping & Thermoforming application.

#### Typical Properties:

Sr. No.	Property	Test Method	Unit	Value*
1	Melt Flow Index ( 230°C & 2.16 kg)	ASTM D1238	g/10 min	3.4
2	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	35
3	Tensile Elongation @ Yield (50mm / min)	ASTM D638	%	12
4	Flexural Modulus (1% Secant)	ASTM D790A	MPa	1500
5	Notch Izod Impact Strength ( 23°C)	ASTM D256	J/m	40
6	Vicat Softening Point (10N)	ASTM D1525	°C	153
7	Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	95

*\*All the mechanical properties are tested on Injection molded Test Specimen, prepared in accordance with ASTM D 4101*

#### Processing Guidelines:

- Barrel Temperature : 220 - 280°C
- Die Temperature : 260 - 280°C
- Quench Temperature : 30 - 40°C
- Oven Temperature : 155 - 160°C

#### Storage & Handling:

Bags should be stored in dry & dust free environment at temperature below 50 °C and Prevent from direct exposure to sunlight & heat to avoid quality deterioration.

#### Regulatory Requirements:

R03RR is manufactured complying the requirements specified in IS 10910 on "Specification for Polypropylene & its Copolymers for safe use in contact with Foodstuff, Pharmaceutical & Drinking water". Furthermore the Additives added in this grade formulation compiles to the "Positive list of constituents of Polypropylene and its Copolymers in contact with Foodstuff, Pharmaceutical & Drinking water" as laid down under IS 10909. In general the additives & constituents used in the grade are in line with requirement laid down under FDA: CFR Title 21,177.1520, Olefin Polymers.

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